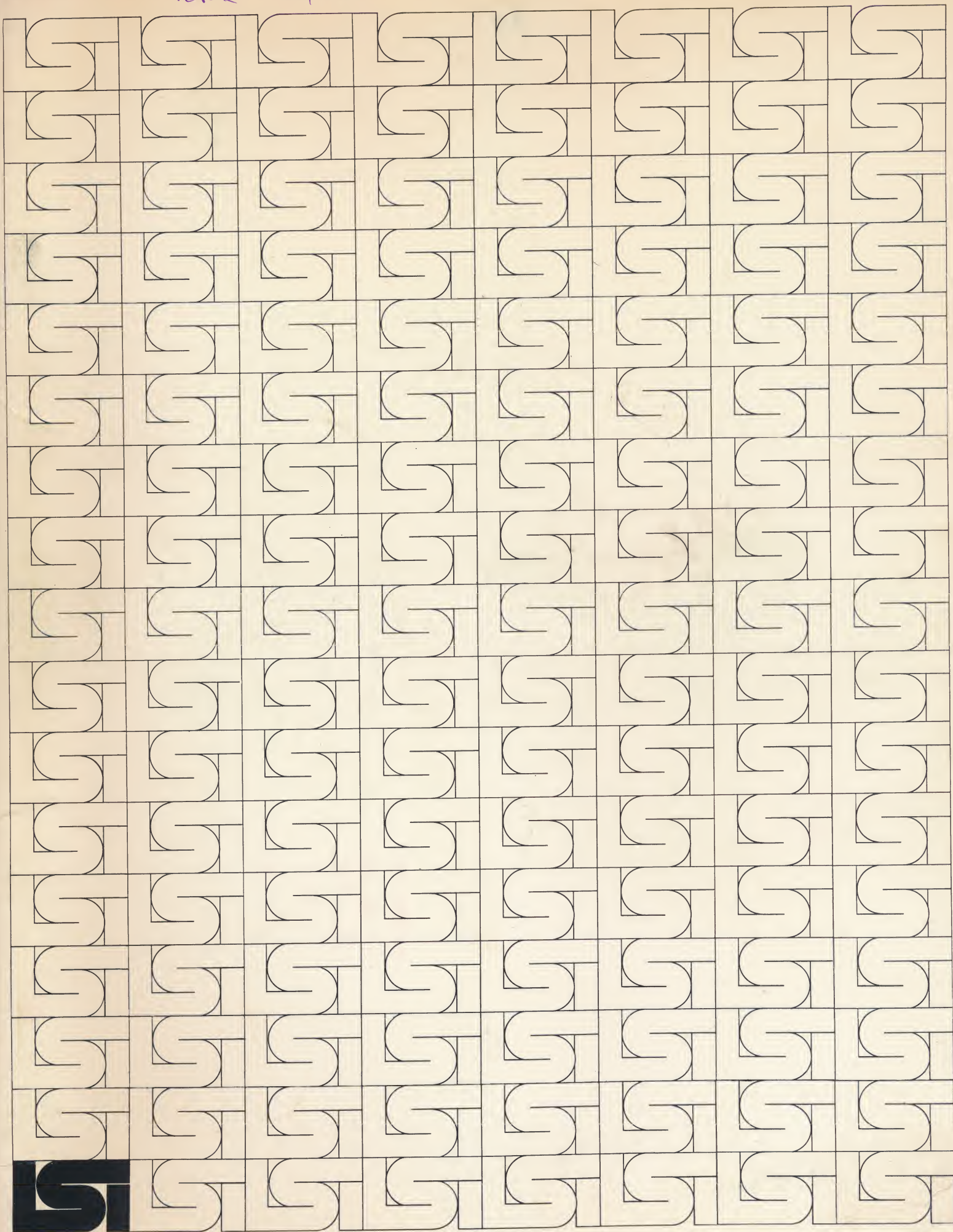


TRACK LIGHTING.

603



Lighting Services, Inc. / 77 Park Avenue / New York, New York 10016 / 212 MUrray Hill 3 6191

Lighting Services, Inc. Accentlighting Systems



Cylinder Series



C150 Cold Light Cylinder

The C150 Cold Light Cylinder is an adjustable accentlight for interior applications. Clean-lined design and a wide variety of finishes recommend it for use with most styles of decor.

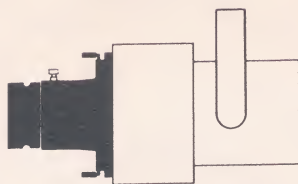
A highly efficient convection-vented design permits use of the heat-reducing PAR-38 lamps which decrease the radiant heat content of the beam by two-thirds.

Units also use standard PAR-38 and R-40 lamps of all wattages. They have integral glare control louvers and accept glass color filters.

P150 Cold Light Pendants

This is a pendant downlight version of the C150 adjustable accentlight. It is available with a wide range of stem lengths and finishes. It accepts heat-reducing and standard PAR-38 and R-40 lamps of all wattages, color filters, and has integral glare control louver.

Q-Flood Series



Q-flood/250

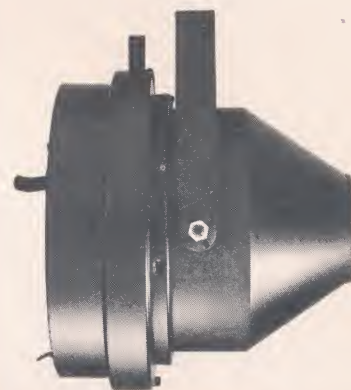
The Q-flood/250 is a compact, adjustable, wide-beam interior floodlight which uses the single-ended, screw-base 250 watt quartz-iodine lamp. The unit has a 90° beam spread and is more efficient than PAR and R floodlamps. The Q-flood/250 accepts accessory glare control devices and glass color filters.

Q-lens Beamshaper

The Q-lens Beamshaper is an optical accessory which provides complete adjustment of the size and shape of a light beam. It is used with the LSI Q-flood Quartz floodlight.

The Beamshaper will isolate objects within clean circles of light. It will precisely frame paintings, signs, and photographs with light. The Q-lens Beamshaper will permit defined accentlighting with no overspill to produce remarkable dramatic effects.

Spotlight Series



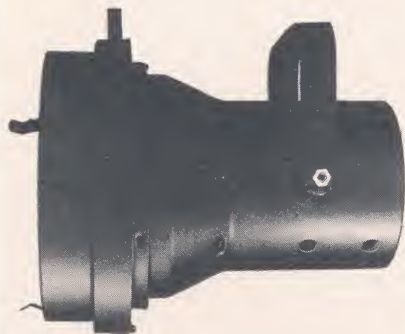
200 Series, 300 Series, 500/1000 Series

LSI spotlights using 150w to 1000w sealed-beam PAR lamps have become the specified standard for display and exhibition accentlighting. These units are designed and constructed with no compromise in either quality or flexibility. Sealed-beam lamps are highly efficient and long lasting (2000 hrs. or more). All units can be furnished with a wide variety of lamp beamspreads and mounting devices to satisfy an unlimited range of applications.

Low Voltage Series

Track Systems

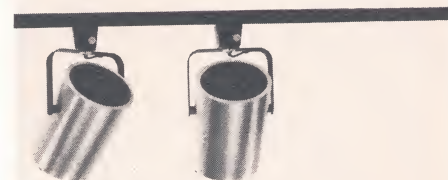
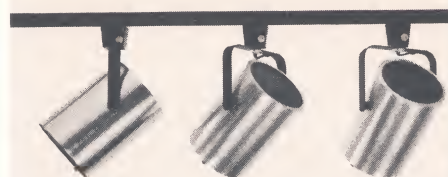
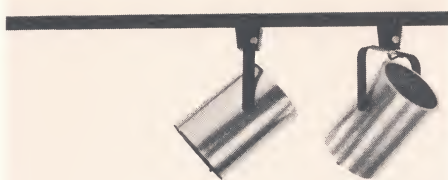
Linear Systems



25 Series, 30 Series, 120 Series

The Low Voltage Series uses a range of sealed-beam PAR lamps powered from integral stepdown transformers. These lamps permit narrower beam spreads than are optically possible with standard voltage lamps.

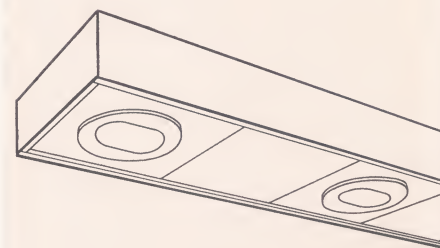
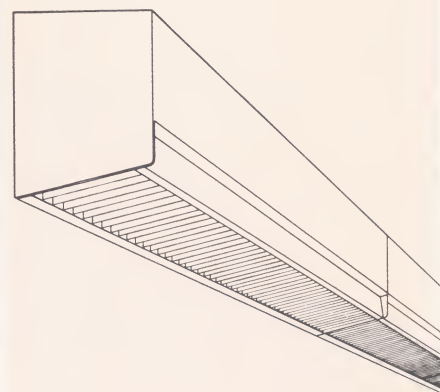
The 25 Series, 30 Series, and 120 Series units produce narrow, brilliant shafts of light which are ideal for lighting small objects and for accenting important details on larger objects.



ULD, Wiremold 2100, and G.E. LW Lighting Track

The concepts of a flexible system of movable, cordless fixtures mounted on an electrified support track was pioneered by LSI. This lighting technique has been widely accepted by designers and users in a broad range of applications.

These track systems can be surface or stem mounted, recessed, and fabricated to exact lengths. LSI supplies three different types of electrified lighting tracks, each having distinctive features for specific applications.



Lightline Surface-Mounted Wallwash

The LSI Lightline is a linear, ceiling-mounted incandescent fixture for illuminating walls and vertical surfaces in residential and commercial interiors. Continuous runs of Lightline generate a warm, even wash of light with minimum fixture brightness; ideal for art works, draperies, book shelves, and display walls.

Modular Adjustable System

The LSI Modular Adjustable System is an integrated accentlighting troffer assembly for surface or recessed mounting. Directional incandescent lighting elements and blank panels can be moved and interchanged freely along a linear die-formed housing which supplies power to activate elements.

This system combines the advantages of flexible exposed track systems with the uncluttered appearance of fixed recessed directional fixtures.

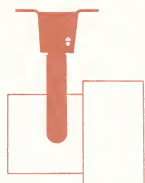
Mounting Devices

LSI accentlighting fixtures are fabricated with a variety of mounting devices for differing physical installation conditions. Most units can be supplied with any of the fittings shown here.

ULD Track Fitting



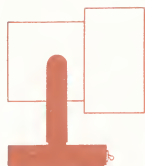
Universal Flange



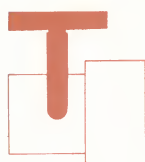
C-Clamp



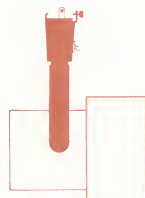
Portable Weighted Base and Pinup



Canopy



2100 Wiremold Track Fitting



LW Track Fitting



High-Hat Conversion Mounting



LSI specializes in incandescent accentlighting systems to be used for the creation of visual and spatial emphasis.

LSI systems permit rapid and economical variation of the luminous environment.

Flexible engineering and fabrication facilities expedite production of standard and special designs.

LSI systems have unlimited applications, and are frequently used in Show Windows, Store Interiors, Museums and Art Galleries, Residences, Exhibitions and Displays, Shopping Centers, Theatres and Television Studios.

The complete line of LSI accentlighting equipment is available through leading electrical distributors. Product information, technical assistance, application engineering, and special fixture designs will be provided by the Technical Engineering Department, LSI, 77 Park Avenue, New York, N.Y. 10016. An LSI sales representative will provide complete service upon request.



Lighting Services, Inc.
77 Park Avenue,
New York, N.Y. 10016

Cylinder Series

The LSI Cylinder Series is an architecturally integrated family of surface mounted interior accentlights, designed for use with economical, high-efficiency PAR and R lamps from 30 to 300 watts. These units, featuring a wide selection of beam patterns and mounting systems and a complete range of permanent glass color filters, provide complete flexibility to meet all requirements.

Finishes

Specify color when ordering.

Group A

Jet Black*
Matte White**
Bronze*

Group B

Brushed Aluminum*

*supplied with black louver, black yoke or stem, black backplate and black mounting
**supplied all white except with black louver

Grounding

3-wire grounding linecords are available on all cord and plug models at additional cost. Specify by adding suffix "G" to model number.



C150 Cold Light Cylinder

The Cold Light Cylinder is a fully adjustable fixture for general accentlighting. It features a unique convection venting system which reduces radiant heat in the beam by two-thirds when used with cool-beam PAR-38 dichroic reflector lamp. Ideal for applications where spoilage, fading and personal discomfort are a problem. Also accepts the high-intensity 250 watt quartz-iodine PAR-38. Includes cellular metal louver to control spill and glare. Self-locking focus adjustments and built-in switch. UL and CSA listed.

Model No.

- C150-1**
Twist-on fitting for ULD-1 lighting track.
C150-2
Universal flange, 6' cord and plug.
C150-3
C-clamp for pipes, etc., 6' cord and plug.
C150-4
Weighted base and pinup, 6' cord and plug.
C150-5
Canopy for outlet box mtg. No switch.
C150-7
Stab-in fitting for 2100 Wiremold track.
C150-8
Stab-in fitting for G.E. LW lighting track.
C150-9
High-hat conversion. 8" or 12" stem, no switch.

Dimensions

Length: 8 $\frac{7}{8}$ ", Diameter: 6 $\frac{1}{8}$ ".

Accessories

Glass Color Filters, Size D.

Selection of 55 colors.

Spread lens D. Spreads light beam in one axis.

Lamp Types

75PAR/SP 75w PAR-38 spot
75PAR/FL 75w PAR-38 flood
75PAR38/2FL 75w PAR-38 cool-beam flood
150PAR/SP 150w PAR-38 spot
150PAR/FL 150w PAR-38 flood
150PAR38/2SP 150w PAR-38 cool-beam spot
150PAR38/2FL 150w PAR-38 cool-beam flood
150R/SP 150w R-40 spot
150R/FL 150w R-40 flood
Q250PAR38SP 250w PAR-38 quartz spot
Q250PAR38FL 250w PAR-38 quartz flood
300R/SP 300w R-40 spot
300R/FL 300w R-40 flood



P150 Cold Light Pendant

The LSI Cold Light Pendant is a cylindrical downlight with the same features and heat-reducing characteristics as the C150 Series. Ideal for installations over sales counters, food displays, planters and aquariums, which require a high light level and minimum heat. A selection of stem lengths facilitates locating fixture at optimum height. Includes cellular metal louver to control spill and glare. UL and CSA listed.

Model No.

- P15018**
18" overall height.
P15024
24" overall height.
P15030
30" overall height.
P15036
36" overall height.
P15042
42" overall height.
P15048
48" overall height.

Note: Overall height is measurement from ceiling line to bottom of unit. Other overall heights are available on special order.

Dimensions

Cylinder height: 8 $\frac{7}{8}$ ", Diameter: 6 $\frac{1}{8}$ ".
Canopy height: 7 $\frac{1}{8}$ ", Diameter: 5".

Accessories

Glass Color Filters, Size D.

Selection of 55 colors.

Spread lens D. Spreads light beam in one axis.

Lamp Types

75PAR/SP 75w PAR-38 spot
75PAR/FL 75w PAR-38 flood
75PAR38/2FL 75w PAR-38 cool-beam flood
150PAR/SP 150w PAR-38 spot
150PAR/FL 150w PAR-38 flood
150PAR38/2SP 150w PAR-38 cool-beam spot
150PAR38/2FL 150w PAR-38 cool-beam flood
150R/SP 150w R-40 spot
150R/FL 150w R-40 flood
Q250PAR38SP 250w PAR-38 quartz spot
Q250PAR38FL 250w PAR-38 quartz flood
300R/SP 300w R-40 spot
300R/FL 300w R-40 flood



Cylinder Series



CF150 Cylinder Uplight

The Cylinder Uplighter is a free-standing accentlight, similar in appearance to other members of the LSI Cylinder Series and offering the same heat-reducing capabilities. An attractive means of softening undesirable shadows cast by overhead lights, or of creating striking highlights from below in architectural spaces, show-windows, interior displays, or counter-top and island exhibits. Includes cellular metal louver to control spill and glare, 6' cord and plug with integral lineswitch. UL and CSA listed.

Model No.

CF150

Note: Lineswitch not available on models with 3-wire grounding cord and plug.

Dimensions

Cylinder height: 8 $\frac{1}{4}$ ", Diameter: 6 $\frac{1}{8}$ ".

Overall height from floor: 9 $\frac{3}{8}$ ".

Accessories

Glass Color Filters, Size D.

Selection of 55 colors.

Spread lens D. Spreads light beam in one axis.

Lamp Types

75PAR/ SP 75w PAR-38 spot

75PAR/ FL 75w PAR-38 flood

75PAR38/ 2FL 75w PAR-38 cool-beam flood

150PAR/ SP 150w PAR-38 spot

150PAR/ FL 150w PAR-38 flood

150PAR38/ 2SP 150w PAR-38 cool-beam spot

150PAR38/ 2FL 150w PAR-38 cool-beam flood

150R/ SP 150w R-40 spot

150R/ FL 150w R-40 flood

Q250PAR38SP 250w PAR-38 quartz spot

Q250PAR38FL 250w PAR-38 quartz flood

300R/ SP 300w R-40 spot

300R/ FL 300w R-40 flood

B12 Spheroid

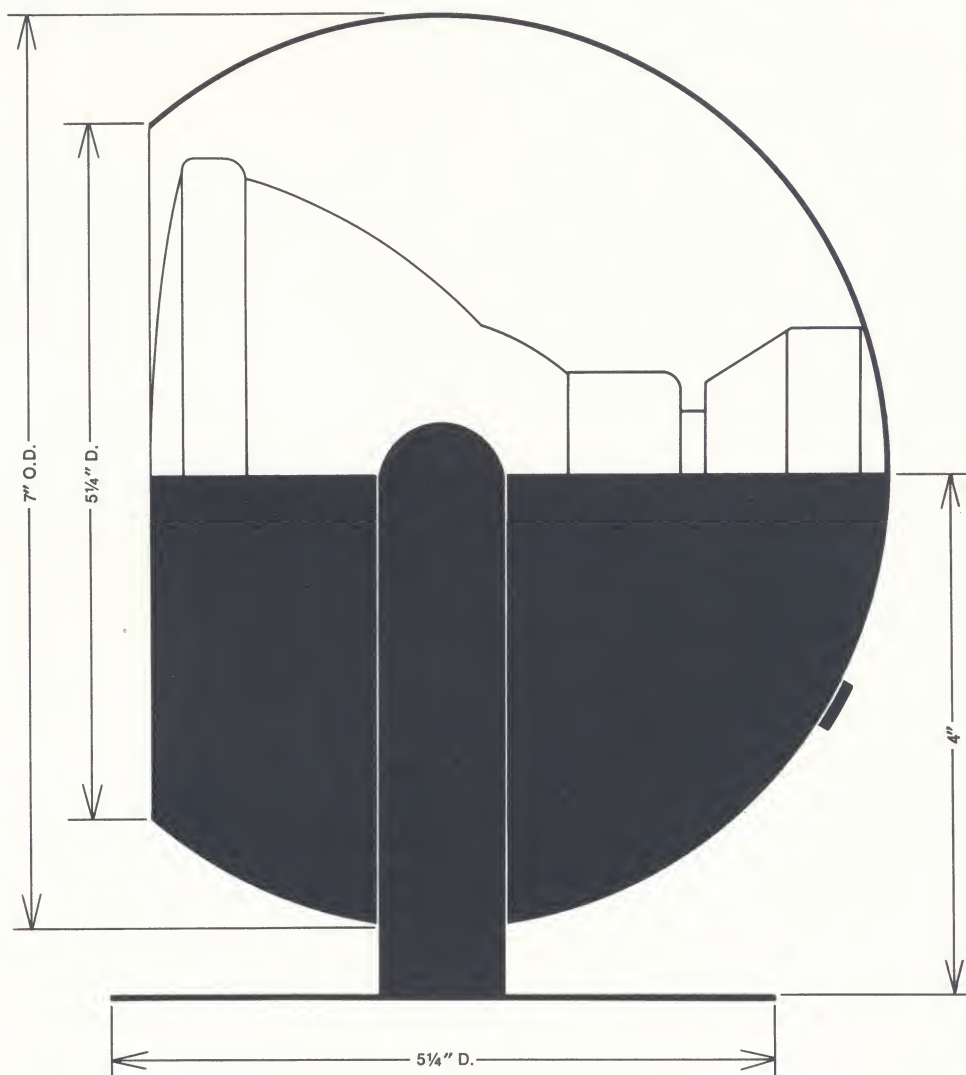


The LSI B12 Spheroid provides a flexible, fully adjustable source of accentlight, compact in size and contemporary in appearance. Designed primarily as a self-supporting unit for use on floors, islands, and counters. The ball may be rotated 360 degrees vertically without tools, and the self-locking yoke maintains any position without slipping. The yoke and baseplate are designed for extreme stability so that the unit will not topple, and are permanently attached to eliminate misplacing loose pieces.

The rugged, all-steel B12 is thus perfectly suited for use in situations requiring frequent changes of location, speed and simplicity of installation, and convenience of storage

when not in use, such as show-windows and in-store displays. Distribution of light from a low angle can vitally enhance the impact of mannequins, furniture, appliances, automobiles, and countless other products where a good fill light or low accentlight is desired.

The B12 is primarily used with 150 watt PAR-38 lamps, but will accept any standard medium screw-base lamp, including R-30 and R-40, in spot and flood patterns and a range of sizes from 75 to 300 watts. Complete with 6' cord and plug with integral line-switch. Available in LSI standard Jet Black, Matte White, and Bronze finishes, as well as all Polished Chrome Plate. UL and CSA listed.

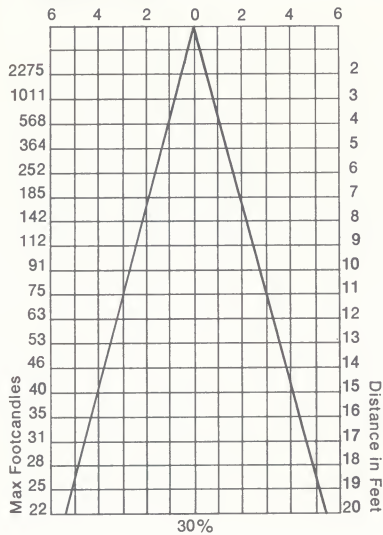


B12 Spheroid

Photometric Data

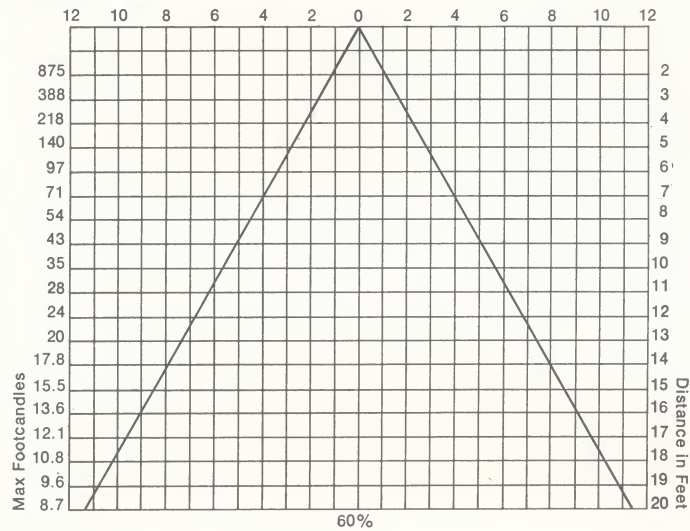
150PAR/SP 150 watt Par-38 Spot
Beam Spread 30°
Maximum Candlepower 9100

Distance in Feet



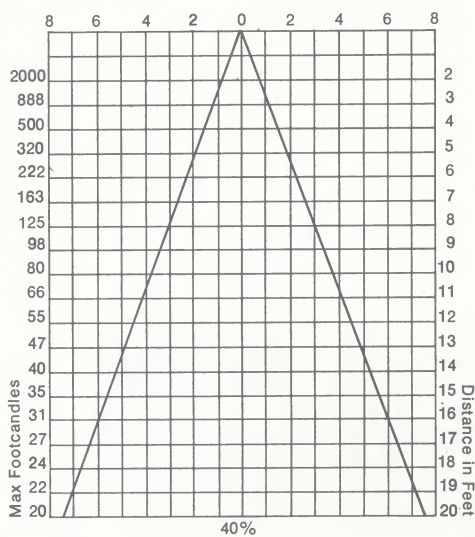
150PAR/FL 150 watt Par-38 Flood
Beam Spread 60°
Maximum Candlepower 3500

Distance in Feet



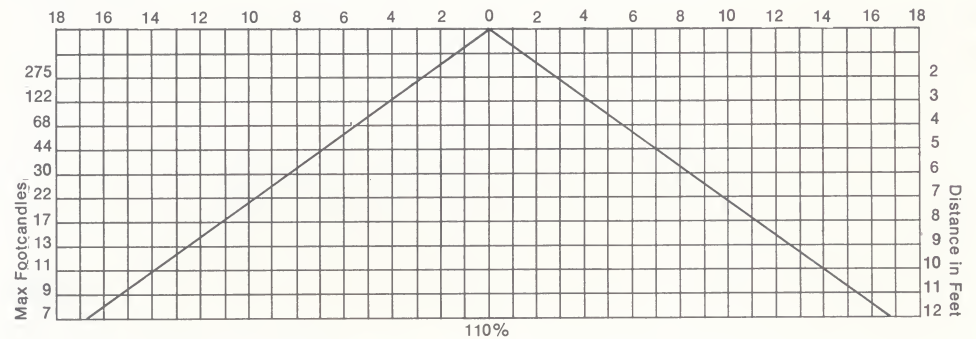
150R/SP 150 watt R-40 Spot
Beam Spread 40°
Maximum Candlepower 8000

Distance in Feet



150R/FL 150 watt R-40 Flood
Beam Spread 110°
Maximum Candlepower 1100

Distance in Feet



Lamp Types

75PAR/SP 75w PAR-38 spot
75PAR/FL 75w PAR-38 flood
150PAR/SP 150w PAR-38 spot
150PAR/FL 150w PAR-38 flood
150R/SP 150w R-40 spot
150R/FL 150w R-40 flood
300R/SP 300w R-40 spot
300R/FL 300w R-40 flood

Ordering Information

Model No. B12

Finishes

Jet Black
Matte White
Bronze
All Chrome Plate

Specify color when ordering.

QFlood

High Intensity Quartz Floodlight

The Q-flood/250 is a compact new adjustable wide-beam floodlight from LSI.

Using the brilliant, low priced 250 watt miniature quartz-iodine lamp, this trim fixture sets new standards for economy and efficiency.

More light at lower cost; 2000 hour screw-in type quartz lamp has lifetime light efficiency maintenance

90° beam spread; superior to PAR and Reflector lamps for wide-beam floodlighting

Deeply regressed reflector reduces glare and spill light

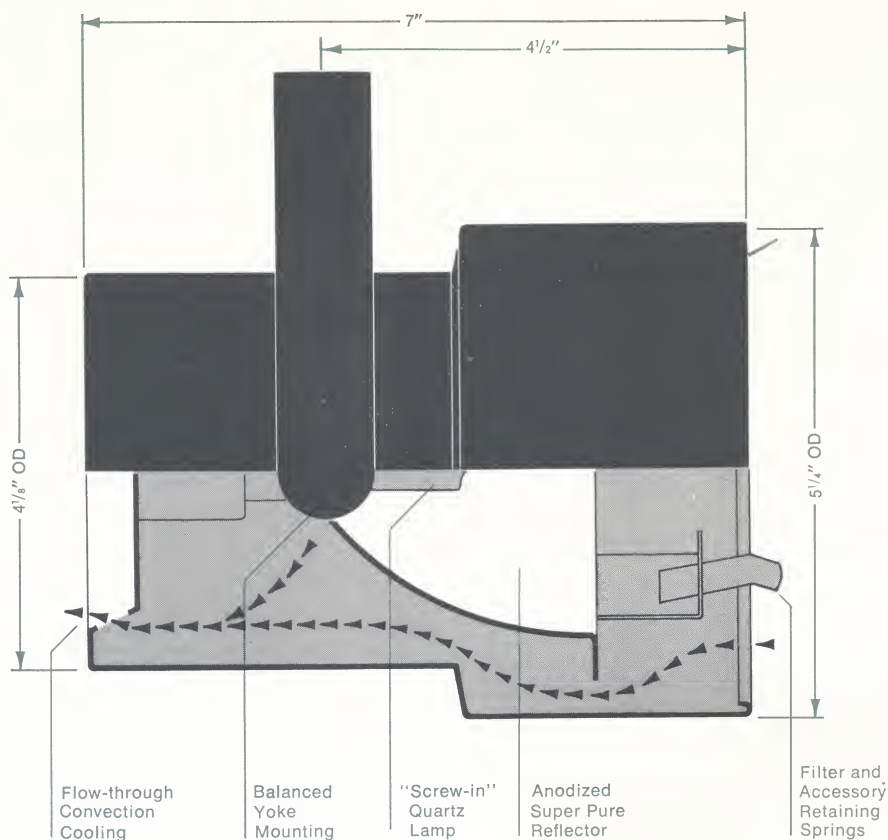
Flow-through convection venting cools unit without external holes

Low wattage lamp won't overload most existing wiring

Requires no output-reducing, color-distorting heat filter

Accessory louver, hood, and color filters provide great flexibility





LAMP TYPE—250Q/CL or 250QCL/MC
250 watt Mini-Can base quartz-iodine lamp.

ACCESSORIES

QC Louver: 1/2" square cell black aluminum eggcrate louver provides increased spill reduction.

QC Hood: 4" diameter, 3" deep cylindrical hood provides increased spill reduction with minimum light loss. Black interior, specify exterior finish.

Grounding: 3-wire grounding cord and plug available for Q250-2, Q250-3, and Q250-4 units. Add suffix **G** to ordering number.

QC Series Color Filters: Wide range of permanent glass color filters for use with Q-flood/250.

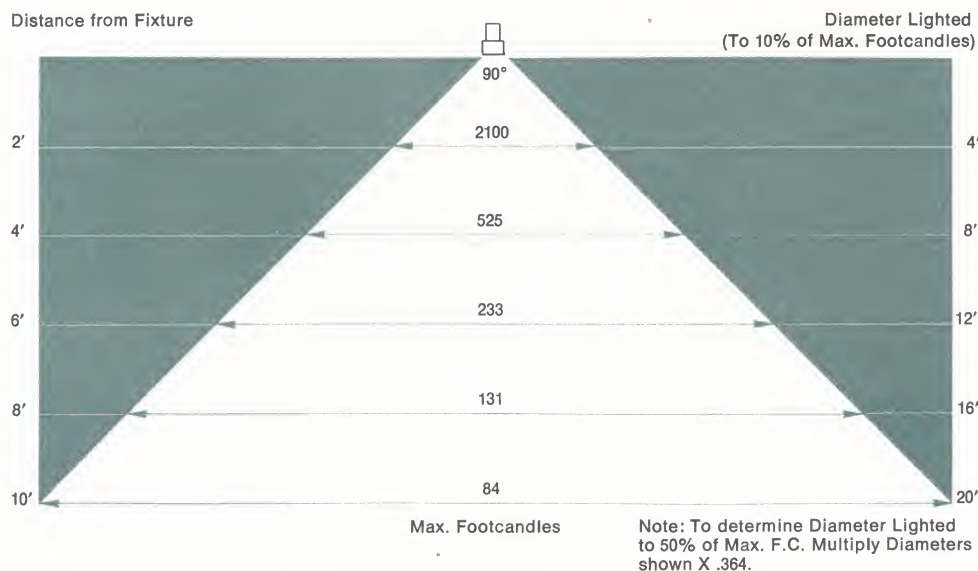
FINISHES

Specify finish desired when ordering: Jet Black*, Bronze*, Matte White.

*supplied with black yoke and mounting.

Suggested Formal Specification

Fixture shall be yoke mounted adjustable quartz-iodine floodlight. Fixture shall have elliptically contoured, high purity anodized reflector, and shall accept 250w Mini-Can screw base quartz-iodine lamps. Fixture shall be U.L. Listed. LIGHTING SERVICES, INC. Q250-_____.



Order Number and Mounting Description

Q250-1

Twist-on fitting for Bulldog Universal Lighting Duct. With switch.

Q250-2

Universal fitting for Unistrut Systems and bolt-up applications. With switch, 6' cord and plug.

Q250-3

C-Clamp for pipes from 3/4" to 1 1/8" O.D. With switch, 6' cord and plug.

Q250-4

Portable Base and Pinup fixture. Cushioned weighted base for floor or table use has keyhole slot for wall mounting. With switch, 6' cord and plug.

Q250-5

Canopy for permanent mounting on standard outlet boxes.

Q250-7

Cordless stab-in for Wiremold 2100 plugging strip. With switch.

Q250-8

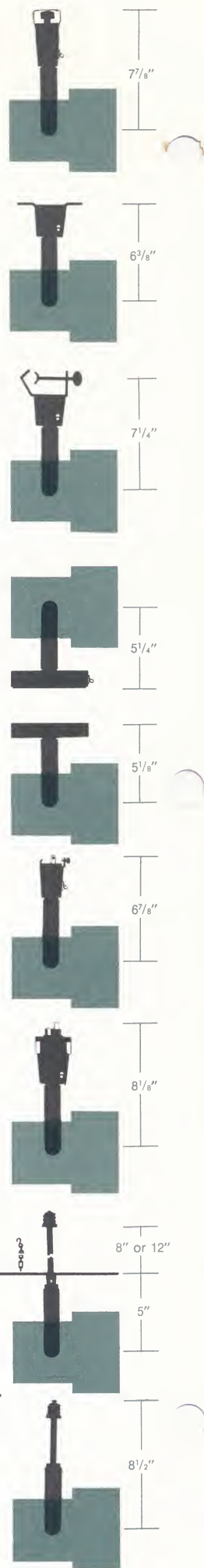
Fitting for General Electric LW Busway. With switch.

Q250-9

Easily installed Conversion Unit mounts in existing "High-Hat" recessed fixtures. 9" dia. plate slides up stem to cover ceiling aperture. Has safety chain. Specify 8" or 12" stem length.

Q250-12

Screw-in unit fits any existing lamp socket. Has 3" stem.



Q-lens Beamshaper / QB-100



The Q-lens Beamshaper provides complete adjustment of the size and shape of a light beam. It is an accessory to be used with the LSI Q250 Series Q-flood quartz-iodine floodlight.

The Beamshaper will dramatically isolate objects within tight circles of light. It will precisely frame paintings, signs, and photographs with sharp rectangles of light. It will create spill-free accentlighting for remarkable dramatic effects.

Four adjustable framing shutters and a slide-in circle template produce limitless variations of quadrilateral and round beam patterns. The Beamshaper may be focused for either soft-edge or hard-edge images.

The Beamshaper is manufactured to rigorous specifications: all lenses are ground and polished from tempered pyrex glass, and shutters and circle template are made of high-temperature stainless steel.

The Beamshaper is available with either a wide angle or narrow angle lens system and may be used with a special group of molded glass color filters. It is easily removed for relamping and for using the Q-flood fixture for general floodlighting.

The Q-flood uses a 250 watt quartz-iodine screw-base lamp with 2000 hours rated life—ideal for continuous-duty applications.

Template Guide Slot

Framing Shutters (4)

Focus Thumbscrew

Lens Assembly

6 1/2" Max

2 1/2"

10 1/4"-12 1/2"
(Wide-Angle Lens)

12 1/4"-13 3/4"
(Narrow Angle Lens)



Q-lens Beamshaper/ QB-100

Photometric Data

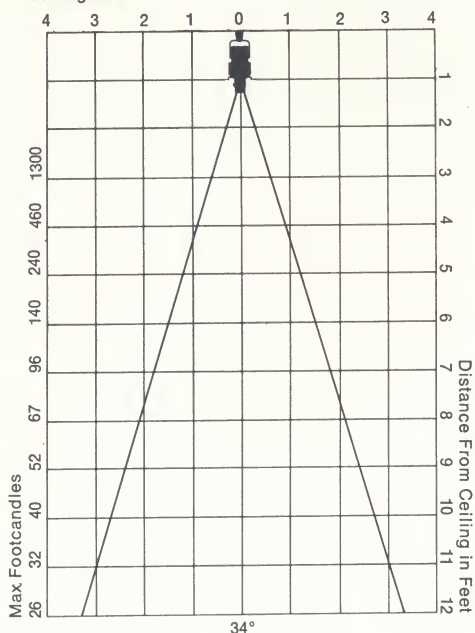
QB-100 WL Wide Angle Lens

Field Angle ^①	34°
Beam Angle ^②	27°
Max. Candlepower	2900
Lamp Type	250Q/CL

① Beamspread to 10% of Max. Candlepower

② Beamspread to 50% of Max. Candlepower

Ceiling Line



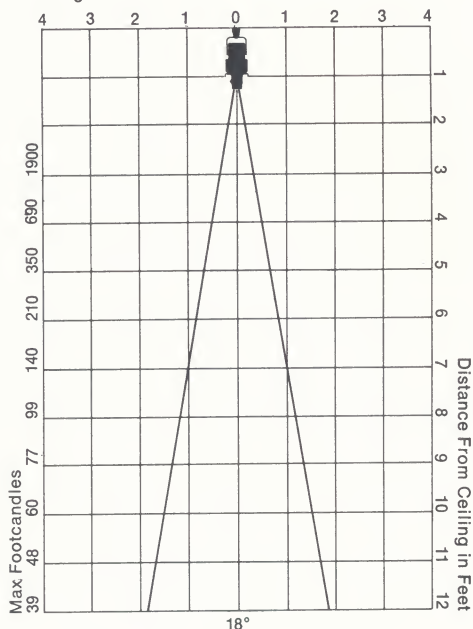
QB-100 NL Narrow Beam Lens

Field Angle ^①	18°
Beam Angle ^②	17°
Max. Candlepower	4300
Lamp Type	250Q/CL

① Beamspread to 10% of Max. Candlepower

② Beamspread to 50% of Max. Candlepower

Ceiling Line



Lamp Types

250Q/CL (120 v.),
250 watts, 2000 hours rated life at std.
voltage.

250Q/CL (130 v.),
250 watts 6000 hours rated life at std.
voltage, multiply c.p. data x .75.

325Q/CL (120 v.),
325 watts, 500 hours rated life at std. voltage,
multiply c.p. data x 1.6.

QC Color Filters

LSI has developed a series of molded glass color filters for use with the Q-flood and Beamshaper. They are designated size QC and are interchangeable with size C filters in the 200 or 30 Series fixtures. Size C filters are not recommended for use with the Q-flood.

Special Templates

Special shapes and patterns may be cut from heavy gauge aluminum foil and placed in the Beamshaper.

Beam Coverage Data

A series of printed worksheets is available at no charge to assist in determining coverage patterns for the QB-100. Request "Beamshaper Worksheets."

Ordering Information

QB-100 WL

Q-lens Beamshaper with Wide Angle Lens
assembly and circle template

QB-100 NL

Q-lens Beamshaper with Narrow Beam
Lens assembly and circle template

NL Lens

Narrow Beam lens assembly only (for
converting QB-100 WL)

WL Lens

Wide Angle lens assembly only (for
converting QB-100 NL)

CT Template

Replacement circle template

Note:

Q-flood fixture must be ordered separately.
Consult Q-flood catalogue page for
complete ordering information.

Spotlight Series

LSI Spotlights using 150w to 1000w sealed-beam PAR lamps have become the specified standard for display and exhibition accentlighting. These units are designed and constructed with no compromise in either quality or flexibility. Sealed-beam lamps are highly efficient and long lasting (2000 hrs. or more). All units can be furnished with a wide variety of lamp beamsreads and mounting devices to satisfy an unlimited range of applications.

Finishes

All LSI Spotlight Series units are available in Jet Black, Matte White, and Bronze finishes. Specify color when ordering.

Grounding

3-wire grounding linecords are available on all cord and plug models at additional cost. Specify by adding suffix "G" to model number.



200 Series 150w-200w
Compact spotlights for short and medium throws (approx. 3-10 ft.). Accepts side-prong base PAR-38 and PAR-46 lamps. Small size permits installation in limited space. Lampholder rotates for orientation of oval-beam lamps. Self-locking focus adjustments and built-in switch. UL and CSA listed.

Model No.

- 200-1** Twist-on fitting for ULD-1 lighting track.
- 200-2** Universal flange, 6' cord and plug.
- 200-3** C-Clamp for pipes, etc. 6' cord and plug.
- 200-4** Weighted base and pinup. 6' cord and plug.
- 200-5** Canopy for outlet box mtg. No switch.
- 200-7** Stab-in fitting for 2100 Wiremold track.
- 200-8** Stab-in fitting for G.E. LW lighting track.
- 200-9** High-hat conversion. 8" or 12" stem, no switch.

Lamp types

- 150 PAR/3SP** spot
- 150 PAR/3FL** flood
- 200 PAR46/3NSP** narrow spot
- 200 PAR46/3MFL** medium flood
- 200 PAR46/3VWFL** very wide flood

Accessories

- AR-38 Adapter Ring.** Required when using side-prong PAR-38 lamps.
- Louver C.** Controls spill light and glare.
- Hood C.** Controls spill light and glare. Larger, but more efficient than louver.
- Glass Color Filters, Size C.** Selection of 55 colors.
- Spread Lens C.** Spreads light beam in one axis.



300 Series 300w-500w
These spotlights accept PAR-56 end-prong base lamps for medium and long throws (8 ft. and longer). They have wide application in window display, exhibition and theatrical lighting. Lampholder rotates for orientation of oval-beam lamps. Self-locking focus adjustments and built-in switch. UL and CSA listed.

Model No.

- 300-1** Twist-on fitting for ULD-1 lighting track.
- 300-2** Universal flange, 6' cord and plug.
- 300-3** C-Clamp for pipes, etc. 6' cord and plug.
- 300-4** Weighted base and pinup, 6' cord and plug.
- 300-5** Canopy for outlet box mtg. No switch.
- 300-7** Stab-in fitting for 2100 Wiremold track.
- 300-8** Stab-in fitting for G.E. LW lighting track.
- 300-9** High-hat conversion. 8" or 12" stem, no switch.

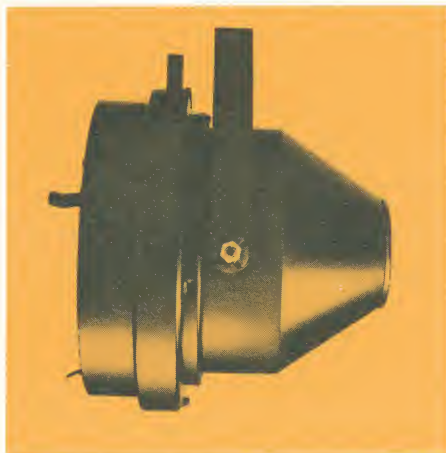
Lamp Types

- 300PAR56/NSP** narrow spot
- 300PAR56/2NSP** "Cool-beam" narrow spot
- 300PAR56/MFL** medium flood
- 300PAR56/2MFL** "Cool-beam" medium flood
- 300PAR56/WFL** wide flood
- 300PAR56/2WFL** "Cool-beam" wide flood
- 300PAR56/VWFL** very wide flood
- Q500PAR56/NSP** Quartz narrow spot
- Q500PAR56/MFL** Quartz medium flood
- Q500PAR56/WFL** Quartz wide flood

Accessories

- Louver E.** Controls spill light and glare.
- Hood E.** Controls spill light and glare. Larger, but more efficient than louver.
- Glass Color Filters, Size E.** Selection of 55 colors.
- Spread Lens E.** Spreads beam in one axis.





500 Series 500w

Spotlights in this series accept end-prong base PAR-64 lamps. Used for long throws and special applications requiring extra high intensities.

Lampholder rotates for orientation of oval-beam lamps.

Self-locking focus adjustments and built-in switch. UL and CSA listed.

Model No.

500-1

Twist-on fitting for ULD-1 lighting track.

500-2

Universal flange, 6' cord and plug.

500-3

C-clamp for pipes, etc. 6' cord and plug.

500-4

Weighted base and pinup. 6' cord and plug.

500-5

Canopy for outlet box mtg. No switch.

500-7

Stab-in fitting for 2100 Wiremold track.

500-8

Stab-in fitting for G.E. LW lighting track.

500-9

High-hat conversion. 8" or 12" stem, no switch.

Lamp Types

500PAR64/VNSP

very narrow spot

500PAR64/NSP

narrow spot

500PAR64/MFL

medium flood

500PAR64/WFL

wide flood

500PAR64/VWFL

very wide flood

Accessories

Louver F.

Controls spill light and glare.

Hood F.

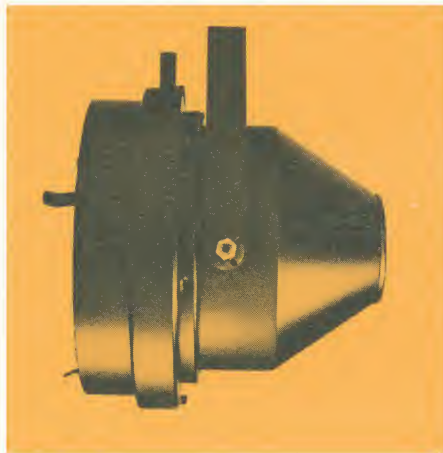
Controls spill and glare. Larger, but more efficient than louver.

Glass Color Filters, Size F.

Selection of 55 colors.

Spread Lens F.

Spreads light beam in one axis.



1000 Series 1000w

Similar to the 500 Series, this series is wired with extra-high-temperature nickel teflon conductors for 1000w Iodine-Quartz PAR-64 lamps. These units will also accept all lamps and accessories listed for the 500 Series.

Model No.

1000-2

Universal flange, 3' cord and plug.

1000-3

C-Clamp for pipes, etc. 3' cord and plug.

1000-4

Weighted base and pinup. 3' cord and plug.

Lamp Types

Q1000PAR64/NSP

Quartz narrow spot

Q1000PAR64/MFL

Quartz medium flood

Q1000PAR64/WFL

Quartz wide flood

Accessories

Louver F.

Controls spill light and glare.

Hood F.

Controls spill light and glare. Larger, but more efficient than louver.

Glass Color Filters, Size F.

Selection of 55 colors.

Spread Lens F.

Spreads light beam in one axis.

Low Voltage Series

The Low Voltage Series uses a range of sealed-beam PAR lamps operating at 6 or 12 volts. These lamps permit narrower beamspreads than are optically possible with standard voltage lamps.

The 25 Series, 30 Series, and 120 Series units produce narrow, brilliant shafts of light which are ideal for lighting small objects and accenting important details on larger objects.

Finishes

All LSI Low Voltage Series units are available in Jet Black, Matte White, and Bronze finishes. Specify color when ordering.

Grounding

3-wire grounding linecords are available on all cord and plug models at additional cost. Specify by adding suffix "G" to model number.



25 Series 25w

Extra-compact units produce high-intensity pinspot beams. For 6 volt PAR-36 lamps. Especially suitable for use in confined spaces. **R25** units have remote transformer joined to head with 36" leadwire. **25X** has lamphead mounted directly to transformer enclosure. Self-locking focus adjustments with built-in switch on all versions. UL and CSA listed.

Model No.

R25-2

Universal flange on lamphead. 6' cord and plug.

R25-3

C-Clamp for pipes, etc. on lamphead. 6' cord and plug.

R25-6

4" dia. flanged plate on lamphead. 6' cord and plug.

25X

Lamphead mounted directly on transformer. 6' cord and plug.

Lamp Types

25PAR36

25w PAR-36 pinspot (Life: 1000 hrs.)

4515

25w PAR-36 pinspot (Life: 700 hrs.)

Accessories

Louver A.

Eliminates spill light.

Glass Color Filters, Size A.

Selection of 55 colors.



30 Series 25w

Standard high-intensity pinspot unit; for track system and general use. Stepdown transformer mounted within fixture housing. For 6 volt PAR-46 lamps. Self-locking focus adjustments and built-in switch. UL and CSA listed.

Model No.

30-1

Twist-on fitting for ULD-1 lighting track.

30-2

Universal flange, 6' cord and plug.

30-3

C-Clamp for pipes, etc. 6' cord and plug.

30-4

Weighted base and pinup. 6' cord and plug.

30-5

Canopy for outlet box mtg. No switch.

30-7

Stab-in fitting for 2100 Wiremold track.

30-8

Stab-in fitting for G.E. LW lighting track.

30-9

High-hat conversion. 8" or 12" stem, no switch.

Lamp Types

25PAR46

25w PAR-46 pinspot (life: 1000 hrs.)

4535

25w PAR-46 pinspot (life: 700 hrs.)

Accessories

Louver C

Eliminates spill light.

Glass Color Filters, Size C.

Selection of 55 colors.





120 Series 120w

Very-high-intensity pinspot unit for long throw applications. Stepdown transformer mounted within fixture housing. For 6 volt PAR-64 lamps. Self-locking focus adjustments and built-in switch. UL listed.

Model No.

120-1

Twist-on fitting for ULD-1 lighting track.

120-2

Universal flange, 6' cord and plug.

120-3

C-Clamp for pipes, etc. 6' cord and plug.

120-4

Weighted base and pinup. 6' cord and plug.

120-5

Canopy for outlet box mtg. No switch.

120-7

Stab-in fitting for 2100 Wiremold track.

120-8

Stab-in fitting for G.E. LW lighting track.

Lamp Types

120 PAR

120w PAR-64 pinspot (life: 3000 hours)

120 PAR/1

120w PAR-64 pinspot (life: 1000 hours)

120 PAR 64/ VNSP

120w PAR-64 pinspot (life: 2000 hours)

Accessories

Louver F.

Eliminates spill light.

Color Filters, Size F.

Selection of 55 colors.

50 Series 25-50w

(LSI will shortly announce a series of fixtures designed for the V12 PAR-36 12 volt lamps.)

240 Series 120w-240w

(LSI will shortly announce a series of fixtures designed for the V12 PAR-56 12 volt lamps.)

Track Systems



The concept of a flexible system of movable, cordless fixtures mounted on an electrified support track was pioneered by LSI. This lighting technique has been widely accepted by designers and users in a broad range of applications.

These track systems can be surface or stem mounted, recessed, and fabricated to exact lengths.

LSI supplies three different types of electrified lighting tracks, each having distinctive features for specific applications.



ULD Lighting Track

ULD is the original lighting track system, field proven by years of commercial use. It is constructed with solid copper busbars insulated within a rolled steel channel. ULD may be surface or stem mounted, and may be mechanically and electrically coupled for long runs.

Fixtures may be attached at any point along the track with a simple twist-on motion. Each fixture is equipped with a toggle switch to facilitate on-track storage of inactive units, and to permit individual focusing.

Capacity: 20 amps at 120 volts, 2400 watts incandescent per circuit. UL & CSA listed.

Model No.

ULD50

5' Basic track section with electrical feed-in cap, end cap, and two surface hangars. (O.A. length—5'-5")

ULD100

10' Basic track section with electrical feed-in cap, end cap, and three surface hangars. (O.A. length—10'-5")

ULD101

10' Joiner track section with electrical & mechanical coupler and three surface hangars. (O.A. length—10'-0")

ULD-RH

Hangars for stem mounting.

Cutting to length—LSI will cut down standard ULD track sections to specified lengths. Specify desired *overall* length.





2100 Wiremold Lighting Track

2100 Wiremold is a prewired multi-outlet track with grounding outlets mounted on 12" centers in a buff-finish steel channel. It may be surface or stem mounted and joined together for continuous runs. It has no open slot and can be painted on the job to match interior finishes. Fixtures stab directly into the flush outlets and lock rigidly to the track channel. Each unit is equipped with a toggle switch; stab-in fitting is polarized. Because 2100 Wiremold is a wired system, it can be furnished on special order with multiple circuits in a single run and with outlets on centers other than 12". Capacity: 20 amps at 120 volts, 2400 watts incandescent per circuit. UL & CSA Listed.

Model No.

WM521

5' Basic track section with electrical feed-in cap, end cap, and two surface hangars. Prewired with 5 outlets on 12" centers. (O.A. length—5'-1 1/2")

WM1021

10' Basic track section with electrical feed-in cap, end cap, and three surface hangars. Prewired with 10 outlets on 12" centers. (O.A. length—10'-1 1/2")

WM1121

10' Joiner track section with mechanical coupler, and three surface hangars. Prewired with 10 outlets on 12" centers. (O.A. length—10'-0")

WM-RH

Hangars for stem mounting.

WMX04

Cushioned weighted base with single Wiremold receptacle for portable use of fixtures. With on-off switch, 6' cord & plug.

WMX05

Flat plate with single Wiremold receptacle for attachment of single fixtures where track is not required. Mounts on standard outlet box.

Cutting to length

LSI will cut down standard 2100 Wiremold track sections to specified lengths. Specify desired *overall* length.

Custom wiring

LSI will furnish prewired sections with multiple circuits and outlets spaced on centers other than 12". Write for data sheet CWM21.



G.E. LW Lighting Track

LW Lighting Track is a continuous-slot system with capability for either one or two electrical circuits in each section. Insulated copper busbars are enclosed in a contoured matte gray finish steel channel. LW may be surface or stem mounted and may be recessed into suspended T-bar acoustical ceilings. Fixtures lock into the continuous slot at any point and may be connected to either circuit in two circuit installations. All units are equipped with toggle switches, and stab-in fittings are polarized. Capacity: 20 amps at 120 volts, 2400 watts incandescent per circuit. UL & CSA listed.

Model No.

SLW4

4' Single-circuit basic track section with electrified feed-in cap, end cap, and two surface hangars. (O.A. length—4'-5")

DLW4

4' Double-circuit basic track section with electrified feed-in box, end cap, and two surface hangars. (O.A. length—4'-5")

SLW10

10' Single-Circuit basic track section with electrified feed-in cap, end cap, and three surface hangars. (O.A. length—10'-5")

DLW10

10' Double-Circuit basic track section with electrified feed-in cap, end cap, and three surface hangars. (O.A. length—10'-5")

SLW11

10' Single-circuit joiner track section with electrical and mechanical couplings, and three surface hangars. (O.A. length—10'-0")

DLW11

10' Double-circuit joiner track section with electrical and mechanical couplings and three surface hangars. (O.A. length—10'-0")

LWRH

Hangars for stem mounting.

LWFFH

Hangars for recessed installation on T-bar ceilings.

LWSP

Hangars for surface installation on T-bars.

LWSA

Hangars for surface installation across T-bars.

LW3L

Universal coupling elbow for any 90° change of direction in track run.

Cutting to length

LSI will cut down standard LW track sections to specified lengths. Specify desired *overall* length.

Note: ULD is a product of I-T-E Circuit Breaker Co. and is furnished by LSI as a service to its customers.

Note: 2100 Wiremold is a product of the Wiremold Co. and is fabricated and supplied by LSI as a service to its customers.

Note: LW Lighting Track is a product of the General Electric Company and is furnished by LSI as a service to its customers.

Mounting Devices



LSI Accentlighting fixtures are fabricated with a variety of mounting devices for differing physical installation conditions. Most units are supplied with any of the fittings shown here. Consult fixture model number listings for exceptions.

Note: LSI has the facility to convert standard mountings or design new mountings to solve unique applications for LSI fixtures. Consult your representative or N.Y. office.

1. ULD Track Fitting

Fixtures equipped with this device "twist-on" to standard ULD lighting tracks. Includes die-cast aluminum switchbox and toggle switch.

2. Universal Flange

Has two 9/32" mounting holes to satisfy a variety of applications. Includes die-cast aluminum switchbox, toggle switch, and 6' cord and plug on most units.

3. C-Clamp

Hand-tightened steel clamp fastens to pipes and poles from 3/4" O.D. to 1 7/8" O.D. Design also permits clamping to square poles, panel edges, etc. Includes die-cast aluminum switchbox, toggle switch, and 6' cord and plug on most units.

4. Portable Weighted Base and Pinup

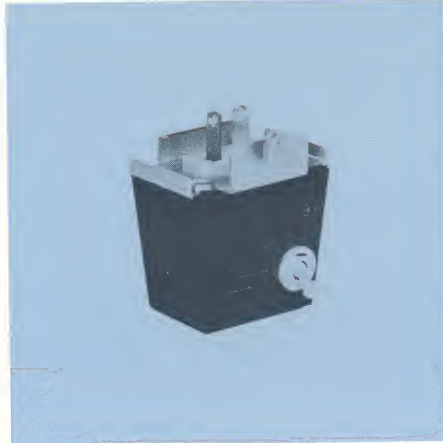
Stable weighted base has keyhole slot for pinup mounting on vertical surfaces. Cushioned base will not mar fine finishes. Includes toggle switch and 6' cord and plug.





5. Canopy
5" diameter steel canopy for permanent mounting on standard outlet boxes. Includes crossbar and hardware.

6. Flanged mounting plate
4" diameter mounting plate replaces standard Weighted Base/Pinup on remote-head low voltage units only. Not available on other units.



7. 2100 Wiremold Track Fitting
Fixtures equipped with this device "stab-in" to 2100 Wiremold lighting tracks equipped with Wiremold #2127G outlets. Includes die-cast aluminum switchbox, toggle switch, and polarized parallel blade stab plug.

8. LW Track Fitting
Fixtures equipped with this device "stab-in" to G.E. LW lighting track. Includes die-cast aluminum switchbox and toggle switch.

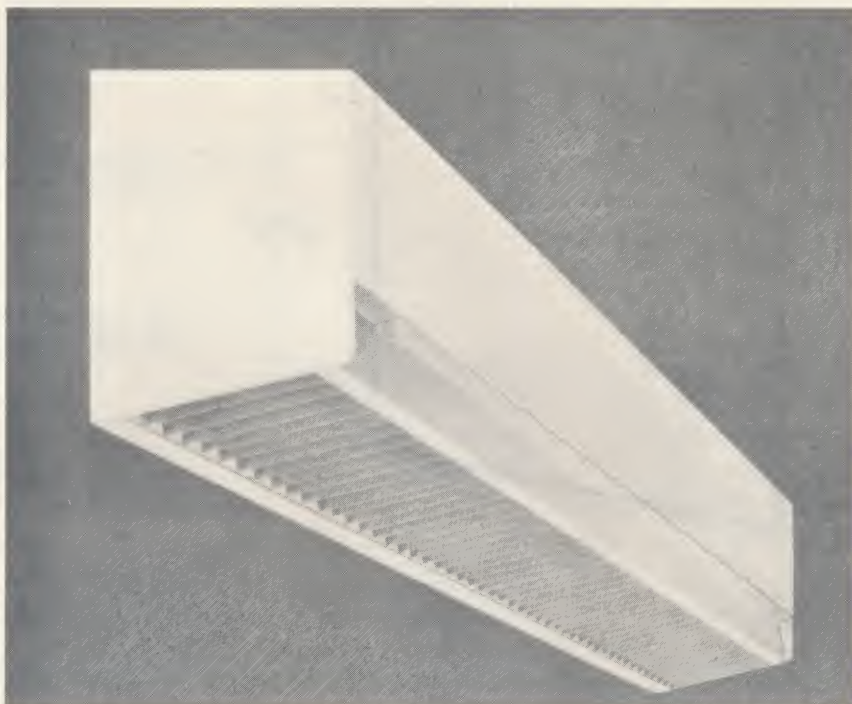


9. High-Hat Conversion Mounting
Special mounting designed to attach LSI accentlights to existing recessed high-hat downlights. Male fitting screws into existing socket, 9" dia. plate slides up and locks on stem to cover ceiling aperture. Safety chain prevents accidental dropping of fixtures. Specify 8" or 12" stem length.



New Product Data

LIGHTLINE SURFACE-MOUNTED WALLWASH



The LSI Lightline is a linear, ceiling-mounted incandescent fixture for illuminating walls and vertical surfaces in residential and commercial interiors. Continuous runs of Lightline generate a warm, even wash of light with no fixture glare; ideal for art works, draperies, book shelves, and display walls.

Uncluttered design permits exposed installation of this unit which is finished in matte white. The fixture uses inexpensive, standard 40 watt T10/IF tubular lamps which are controlled with a prismatic glass lens and matte gray louver baffles.

Standard lengths are 24" (4 lamps), 36" (6 lamps), and 48" (8 lamps) which may be mounted end-to-end for continuous runs.



LL48 - 48" - \$ 94.00

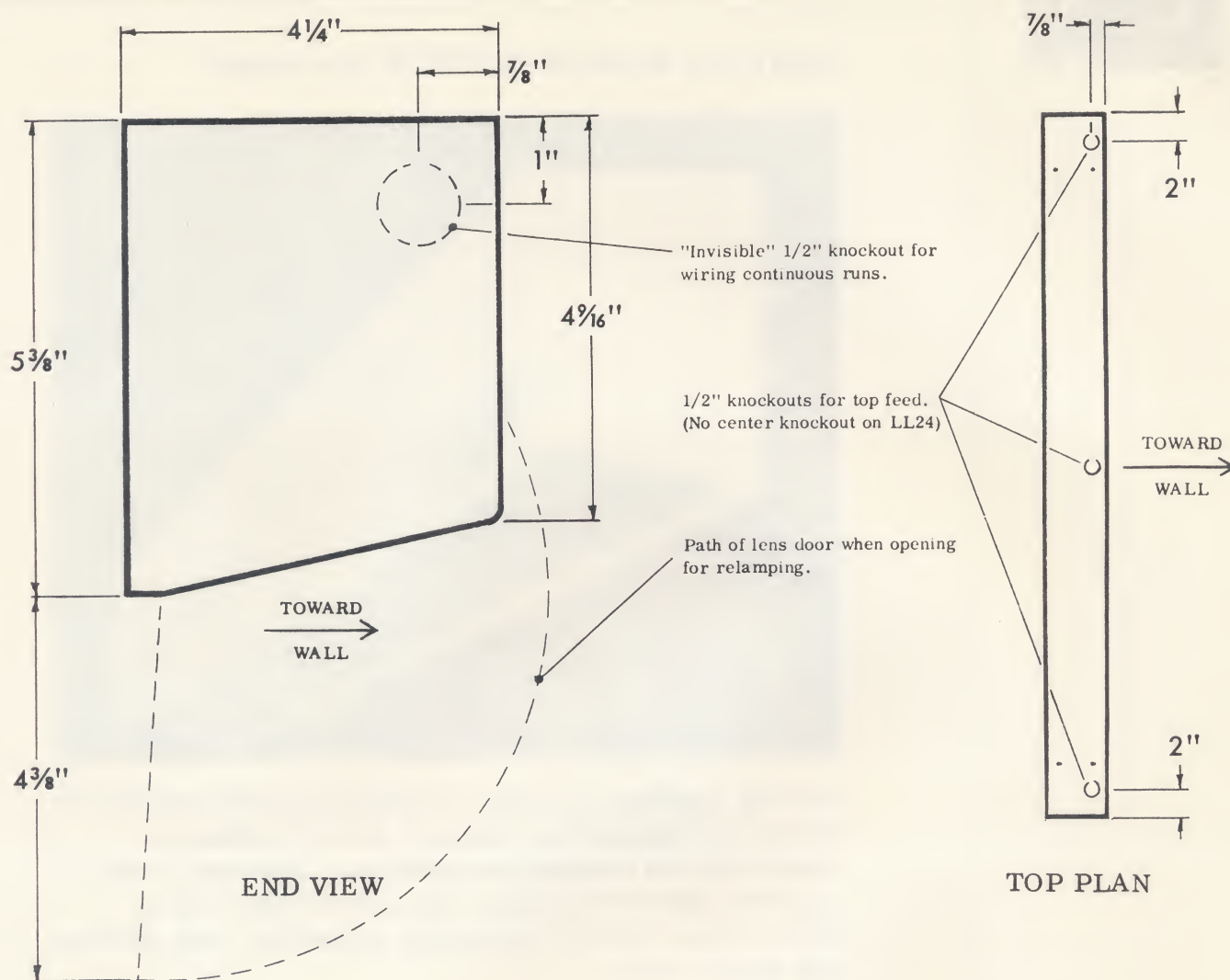


LL36 - 36" - \$ 85.50

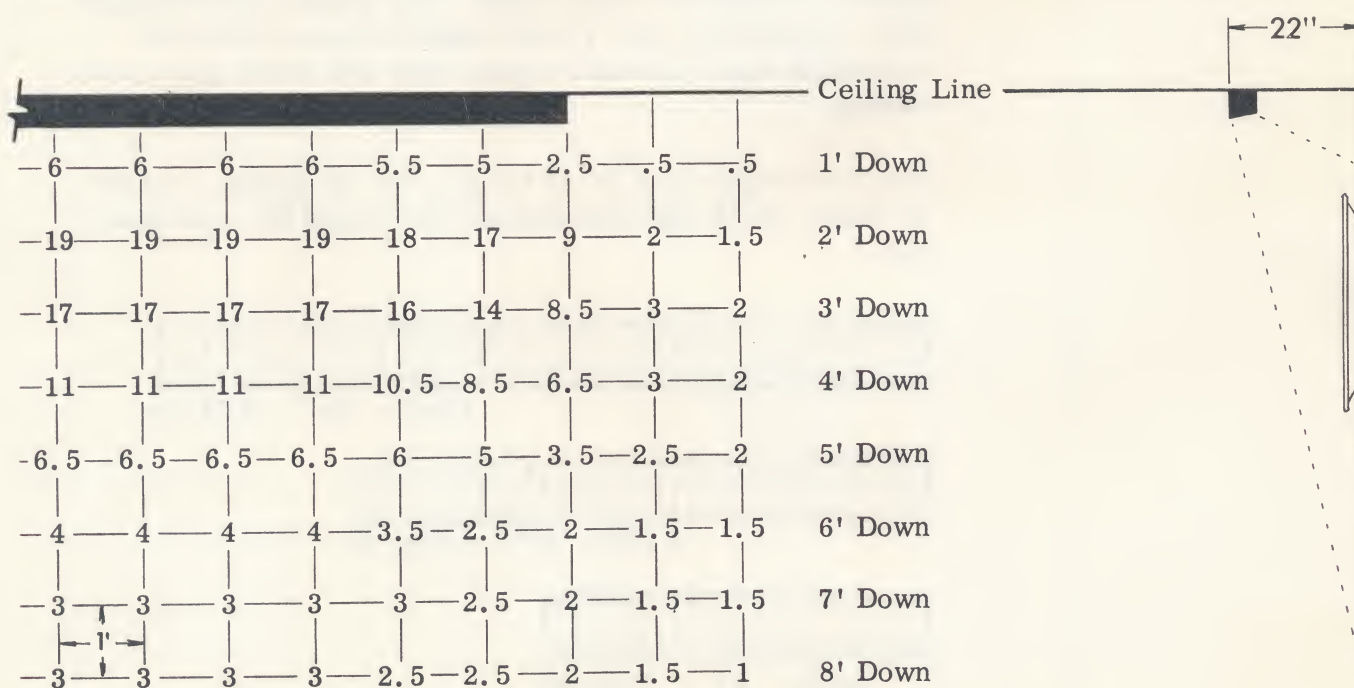


LL24 - 24" - \$ 57.00

DIMENSIONAL DATA



PHOTOMETRIC DATA IN SURFACE FOOTCANDLES



Photometric data above for fixture using 40T10/IF lamps. Rear of fixture was 22" from wall as shown above.

Swivel Socket Series

An economical series of fully adjustable swivel fixtures for standard screw-base lamps. Self-tensioned non-slip swivel joints allow instant adjustment without tools. High temperature components permit use of quartz-iodine and cool-beam lamps. All SS units have on-off switch.

Accessories

HC38 PAR-38 Color Clip

Snap over face of PAR-38 lamps; accepts size C filters and accessories.

HC46 PAR-46 Color Clip

Snap over face of PAR-46 lamps; accepts size C filters and accessories.

Model No.

SS-1

Swivel lampholder and twist-on fitting for ULD-1 lighting track.

SS-2

Swivel lampholder and Universal flange. 6' cord and plug.

SS-3

Swivel lampholder and C-clamp for pipes, etc. 6' cord and plug.

SS-7

Swivel lampholder and stab-in fitting for 2100 Wiremold track.

SS-8

Swivel lampholder and stab-in fitting for G.E. LW lighting track.

MS-200

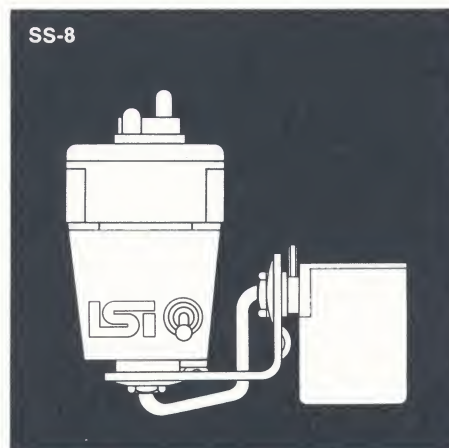
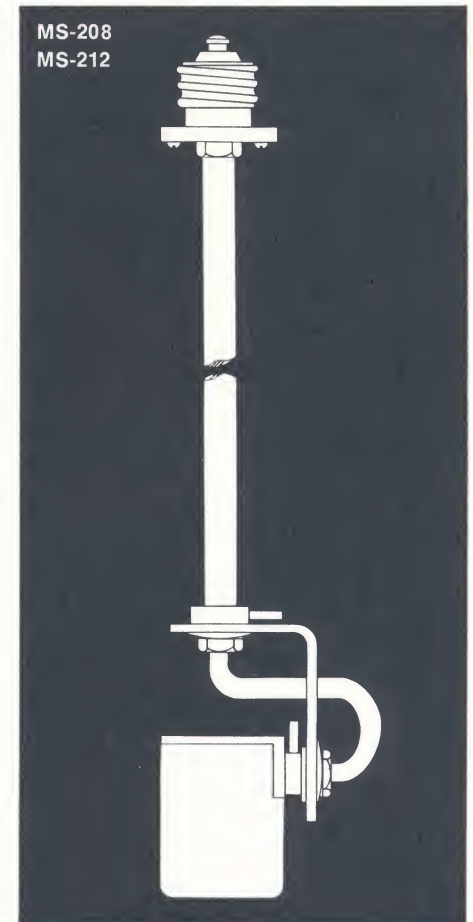
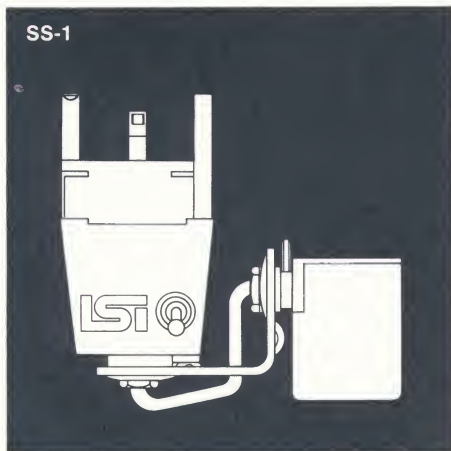
Swivel lampholder and male screw plug for standard lamp socket. Spring-loaded center button for positive contact.

MS-208

Similar to MS-200 but with 6" stem between swivel bracket and screw plug.

MS-212

Similar to MS-200 but with 12" stem between swivel bracket and screw plug.



Swivel Socket Series

E-200 PARAD

A unique device permitting the use of 150w and 200w side prong PAR lamps in standard lamp sockets. Spring-loaded center button provides positive contact and allows lamp beam orientation. Use with swivel sockets for complete adjustability and mounting flexibility.



Color Media

As foremost innovator in display lighting LSI has developed a complete line of lighting color media. Tints and bold color tones creating both brilliant and subtle effects, provide limitless visual variety.

Glass Color Filters

LSI manufactures fade-free stripped glass permanent color filters. This type of filter is rimmed in a seamless aluminum ring which snaps onto the front of LSI and other lighting units.

Size Code	Diameter	LSI Fixture Series
A	3 1/2"	25, 50
B	4 1/4"	For theatrical units
C	4 3/4"	30, 200, Q250
D	5 1/2"	C150, CF150, P150
E	6 1/4"	240, 300
F	7 1/4"	120, 500, 1000
G	6 1/2"	For theatrical units
H	7 1/2"	For theatrical units
J	10 1/2"	For theatrical units

To order glass color filters use size code letter and color identification number:
C944 indicates a size C Canary Yellow filter.

Safety Screen

For high wattage equipment (500w and above), metal hardware cloth safety screen is recommended. This screen is an integral part of the fabricated filter. To specify safety screen add suffix SS after filter order number.

Special Glass Color Filters

LSI will fabricate, on special order, glass color filters in most sizes and shapes.

QC Filters

LSI has developed a series of eleven 4-11/16" dia. molded glass color filters for use with the Q-flood. They are designated size QC and are interchangeable with standard size C filters in the 200 or 30 Series fixtures. Size C filters are not recommended for use with the Q-flood.

- 701 Pink
- 702 Light Red
- 703 Medium Red
- 704 Special Green
- 705 Blue Green
- 706 Pale Blue/Heat Absorbing
- 707 Lunar Blue
- 708 Special Blue
- 709 Medium Blue
- 710 Amber
- 711 Yellow

No. Color

- 901 Light Pink
- 902 Medium Pink
- 903 Deep Pink
- 904 Flesh Pink
- 905 Peach
- 906 Pale Lavender
- 907 Surprise Pink
- 908 Lilac
- 909 Rose
- 910 Warm Red
- 911 Strawberry
- 912 Ruby
- 913 Magenta
- 914 Light Amethyst
- 915 Medium Amethyst
- 916 Deep Amethyst
- 917 Olive
- 918 Light Green
- 919 Special Green
- 920 Medium Green
- 921 Deep Green
- 922 Silver Green
- 923 Yellow Green
- 924 Emerald Green
- 925 Light Turquoise
- 926 Medium Turquoise
- 927 Deep Turquoise
- 928 Light Blue
- 929 Special Blue
- 930 Medium Blue
- 931 Deep Blue
- 932 Daylight
- 933 Ice Blue
- 934 Blue Violet
- 935 Black Light—U.V.
- 936 Grey
- 937 Light Blue Green
- 938 Medium Blue Green
- 939 Light Amber
- 940 Medium Amber
- 941 Deep Amber
- 942 Straw
- 943 Gold
- 944 Canary Yellow
- 945 Lemon
- 946 Pumpkin
- 947 Tangerine
- 948 Orange
- 949 Pink Gold
- 950 Bronze
- 951 Brass
- 952 Autumn Tan
- 953 Leaf Brown
- 954 Butter Pecan
- 955 Toasted Almond
- 990 Spread Lens
- 991 Anti-Heat

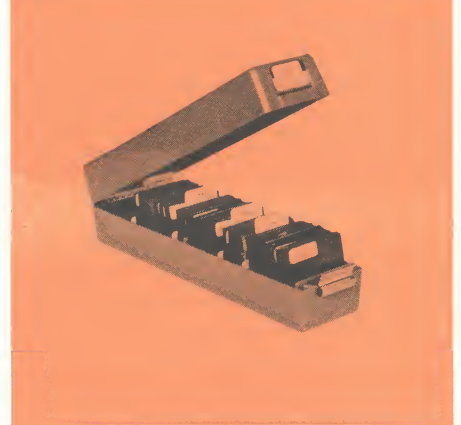
HC38



HC46



FS1



HC38—PAR-38 Color Clip

Accessory Clip snaps over face of PAR-38 lamps; accepts size C filters and accessories.

HC46—PAR-46 Color Clip

Accessory clip snaps over face of PAR-46 lamps; accepts size C filters and accessories.

FS1—Color Filter Samples

To facilitate selection of glass color filters, LSI supplies a complete set of 2" X 2" labelled glass samples in a compact plastic carrying case.



Fluor-O-Color Sleeves

Heat resistant plastic sleeves for coloring fluorescent tubes; may be installed without removing tubes from fixtures. Furnished in 24" and 48" lengths; may be cut or butted for other lengths. To order, specify color, number and length.

LSI/Roscolene

20" X 24" heavy gauge flat acetate sheets used as a lighting color medium and as a general decorative art material. Supplied in the same shades as Fluor-O-Color Sleeves; waterproof, heat and fade resistant. To order, specify color and number.

LSI/Roscogel

20" X 24" lightweight, low cost gelatine lighting color sheets. Widest range of color. To order, specify color and number.

Caution:**1.**

There is no definite correlation between glass colors and Fluor-O-Color/Roscolene/Roscogel colors due to the differences in manufacturing methods and dyes. Color relationships must be established by eye, not by name or number.

2.

Normal manufacturing tolerances cause slight variations in hue and density. These variations are usually greater for glass than for the other media.

3.

Glass color will not fade; the other media may exhibit some fading with continued use, depending on the color and light intensity. Glass, therefore, is normally specified for long-term use.

Fluor-O-Color &
Roscolene No.Roscogel
No.

Color

801	201	Frost
802	202	Bastard Amber
—	203	Dark Bastard Amber
804	204	No Color Straw
805	205	Light Straw
806	206	Medium Lemon
807	207	Dark Lemon
—	208	Medium Straw
809	209	Straw
810	210	No Color Amber
811	211	Flame
—	212	Pale Amber
813	213	Light Amber
—	214	Medium Amber
815	215	Golden Amber
—	216	Amber
817	217	Dark Amber
818	218	Orange
819	219	Orange-Amber
—	220	Pink-Red
821	221	Light Red
—	222	Fire Red
823	223	Medium Red
—	224	Pure Red
825	225	No Color Pink
826	226	Flesh Pink
—	227	Light Shubert Pink
828	228	Follies Pink
—	229	Medium Pink
830	230	Medium Pink-Dubarry
—	231	Deep Pink
832	232	Rose Pink
—	233	Dark Rose Pink
834	—	Salmon Pink
835	—	Medium Salmon Pink
—	236	Light Magenta
837	237	Medium Magenta
838	238	Dark Magenta
839	239	Rose Purple

Fluor-O-Color &
Roscolene No.Roscogel
No.

Color

—	240	Violet
841	—	Surprise Pink
842	242	Special Lavender
843	243	Medium Lavender
—	244	Dark Lavender
—	245	Light Purple
846	246	Medium Purple
—	247	Dark Purple
—	248	Royal Purple
850	250	No Color Blue
851	251	Daylight Blue
—	252	Pale Blue
—	253	Light Sky Blue
—	254	Special Steel Blue
855	255	Azure Blue
856	256	Light Blue
857	257	Medium Blue
858	258	Light Green Blue
859	259	Green Blue (Moonlight)
—	260	Sky Blue
861	—	Surprise Blue
—	262	Medium Blue
863	263	Medium Blue
—	264	Urban Blue
—	265	Dark Blue
866	266	Dark Urban Blue
—	267	Dark Blue
—	270	Pale Green
871	271	Light Green
—	272	Medium Green
—	273	Medium Green
874	274	Dark Green
—	275	Light Blue Green
—	276	Blue Green
877	277	Medium Blue Green
878	278	Yellow Green
—	280	Grey
—	281	Chocolate
—	282	Special Chocolate



Special Products Division

New Product Data



COLORSTROBE

LSI announces the Colorstrobe, a miniature strobelight which screws into an ordinary lamp socket. It produces an intense, repetitive light flash similar to the effects used in popular discotheques.

The unit is available in six brilliant colors and is completely self-contained.

In addition to its attention-getting ability, the Colorstrobe is useful as a safety flasher and warning device. It is weathertight and may be used outdoors.

Specifications

Size:	3-3/4" diameter
	5-1/2" length
Weight:	9.5 oz.
Flash Rate:	20-30 per minute
Life:	More than 5 million flashes
Base:	Medium Screw type
Power Req'd:	120 volts a.c. - 2 watts

Ordering Information

<u>No.</u>	<u>Color</u>
601	Red
602	Green
603	Blue
604	Yellow
605	Pink
606	White

Net Price \$35.

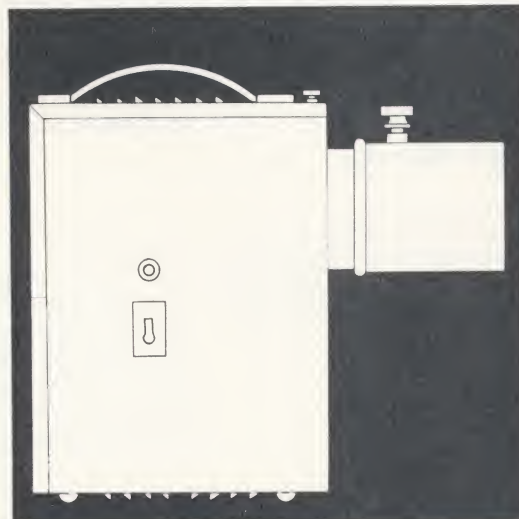
CS-2



New Product Data



LSI Projection Kaleidoscope



LSI announces the distribution of a unique optical device which projects moving, multi-colored kaleidoscopic patterns on any screen or surface. These mobile images provide limitless visual variety; they are invaluable aids in the creation of exciting displays and exhibitions. Since the image pattern will never repeat itself, the Projection Kaleidoscope provides a continually interesting color and motion spectacle.

Pattern Wheel

The changing effects are developed by a motor-driven pattern wheel which is coupled to a unique optical system. The moving pattern can be frozen at any time with a built-in motor control switch.

The standard pattern wheel contains multi-colored glass chips sandwiched between two clear glass faceplates. Different effects may be achieved by substituting small, heat-resistant objects (pins, paper clips, washers, keys, etc.) in place of the color chips.

Factory variations on the standard pattern wheel (colored glass faceplates to tint the entire image, glass chips in specified selected colors, etc.) are available on special order. Blank pattern wheels are also available.

Image Size

The Projection Kaleidoscope is furnished with either a Wide-Angle lens system or a Narrow-Beam lens system (both may be purchased if desired). The diameter of the projected image is determined by the following simple calculation:

W-A Lens

Image Diameter = $2/3 \times$ Lens-to-Screen Distance

N-B Lens

Image Diameter = $1/3 \times$ Lens-to-Screen Distance

The Wide-Angle lens will produce a larger image, while the Narrow-Beam lens will produce a smaller, brighter image.

Description

Weight: 7 $\frac{1}{2}$ pounds

Size: 9" high, 6" wide, 9 $\frac{1}{2}$ " to 13" long (depending on lens used)

Lamp: 300 watt GE type CRT Projection Lamp. Rated Life: 500 hours. (One lamp is furnished with each unit.)

Cooling: Forced air system with internal silent blower.

Electrical: 350 watts, 110-120 volts, alternating current only.

Finish: Gray.

Options and Accessories

Six ft. 3-Wire grounding cord and plug	Net	1.00
Extra lens system	Net	25.50
Extra pattern wheel	Net	8.50
CRT Lamp	Net	4.00
Mirror deflector	Net	4.25

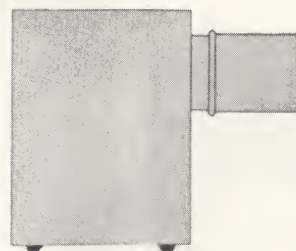
Guarantee

The LSI Projection Kaleidoscope is guaranteed for one year against failure of workmanship and materials.

(Note: The Projection Kaleidoscope must be operated so that the projected beam is within 20° of the horizontal. If the user desires to aim the unit at an angle exceeding this limit, a mirror deflector is available which will bend the beam 90° in any direction.)

Model Variations

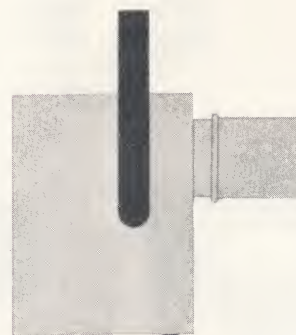
There are five basic models which differ only in the mounting devices provided.



Model PKR

Projector is furnished with four non-marring rubber feet for any flat surface (floor, table, etc.).

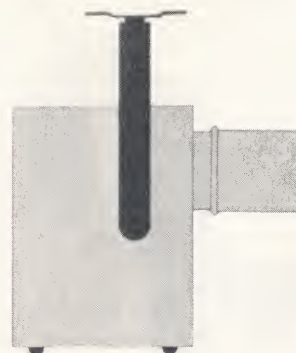
Net Price: \$170.00



Model PKY

Projector is fitted with a steel yoke having a $\frac{3}{8}$ " diameter mounting hole for flexible hanging arrangements.

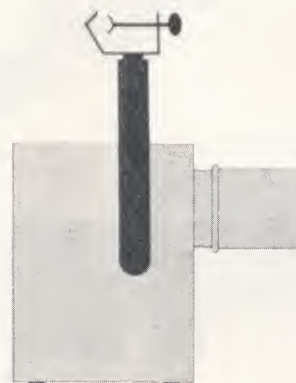
Net Price: \$175.00



Model PKY-2

Yoke mounted projector has built-in constant tension swivel system and universal bracket with two $\frac{1}{4}$ " mounting holes.

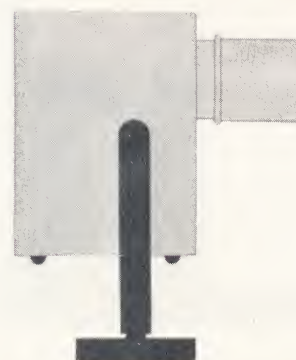
Net Price: \$180.00



Model PKY-3

Yoke mounted projector has built-in constant tension swivel system and C-Clamp for pipes $\frac{3}{4}$ " to $1\frac{7}{8}$ " o.d.

Net Price: \$180.00



Model PKY-4

Yoke mounted projector has built-in constant tension swivel system and weighted base (which may be screwed down to any flat surface).

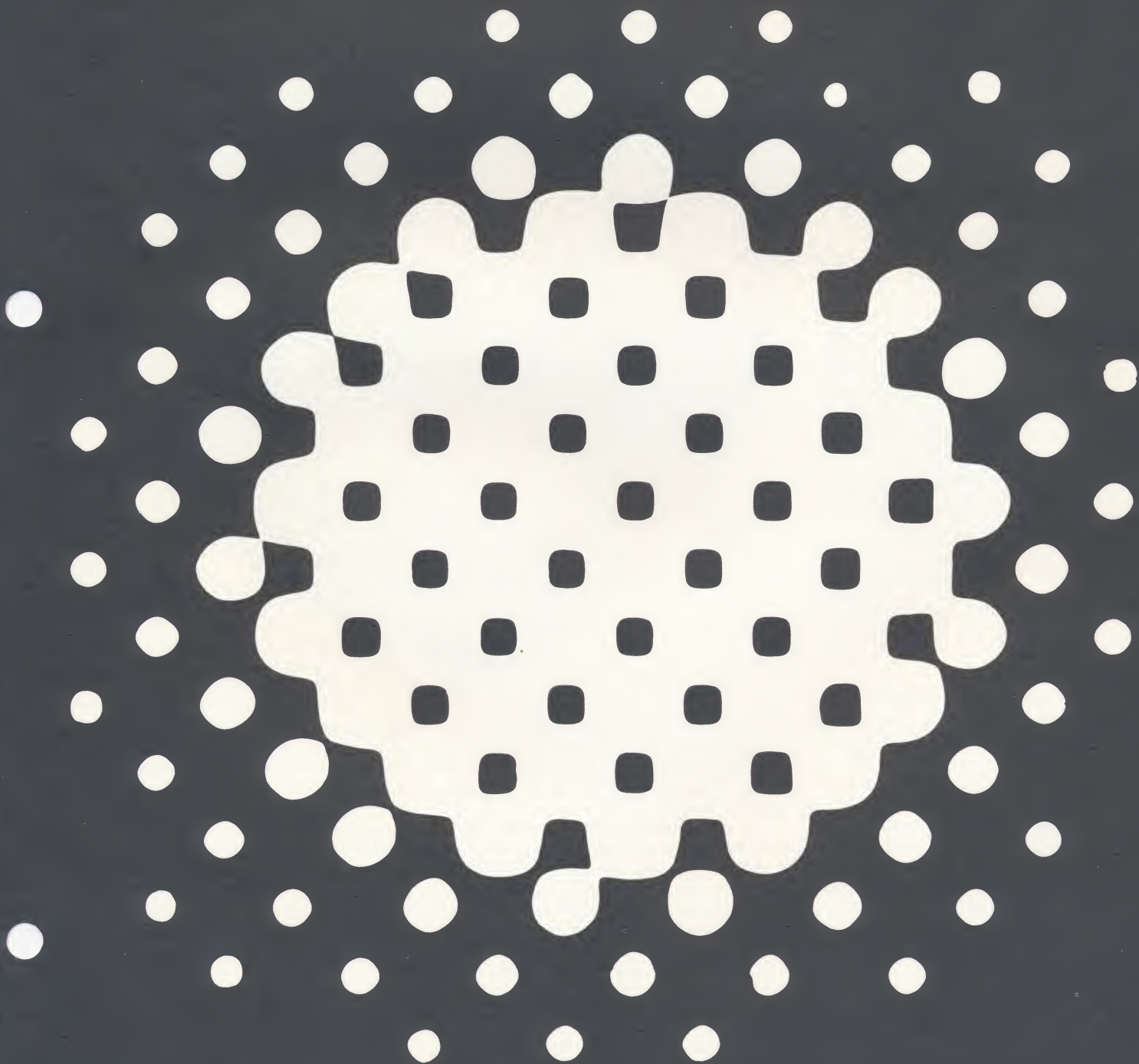
Net Price: \$180.00



● The sealed-beam lamp in the theatre: A Primer

The sealed-beam or PAR lamp is one of the most under-utilized tools in contemporary theatre lighting. Accelerated development in recent years of these lamps and fixtures has led to widespread appli-

cation in all areas of lighting design. LSI feels that the stage lighting designer, given proper information and equipment, will also put these sources to good use.



Virtues of the sealed-beam

Several features distinguish sealed-beam lamps and fixtures from conventional stage lighting equipment:

1.

They are light and compact—an LSI 300 Series unit with 300w or 500w lamp weighs only 3 lbs. and can be mounted on 12" centers. (A typical 6" fresnel weighs 12½ lbs.) These units are ideal for touring productions.

2.

The reflector and lens are an integral part of the sealed-beam bulb. Since they are replaced each time a new lamp is installed, "like new" performance is guaranteed.

3.

The average life of a sealed-beam lamp is 2000 hours, ten times greater than standard stage lamps. The annoyance and cost of frequent burnouts is eliminated.

4.

Sealed-beam fixtures can burn in any position without premature lamp failure. There are no "base up to horizontal" or "base down to horizontal" restrictions. Therefore, they can be mounted virtually anywhere.

5.

Most outstanding is the high efficiency of sealed-beam lighting units. The efficiency (conversion of electric power to light **in the beam**) of PAR lamps ranges between 35% and 50% (depending on type). In comparison, the efficiency of a typical 6" fresnel ranges between 10% in spot position and 30% in flood position, and the efficiency of a 6" ellipsoidal reflector spotlight (2-6x9 p. c. lenses) is 30%. These figures represent measurements taken on new equipment; they will deteriorate for the fresnel and e.r.s unless the permanent optical parts are perfectly maintained. The highly efficient sealed-beam unit will produce more light without increasing wattage requirements.

Where the PAR does NOT apply

We do not wish to infer that the sealed-beam instrument should replace conventional stage lighting units. PAR lamps have characteristics which restrict their application in some areas. These include fixed beamspreads which are difficult to alter optically or mechanically, considerably "secondary" light emission in some lamp types (which can be largely controlled with a proper high-hat "hood"), and oval or rectangular beam shapes which are often a blessing and sometimes a curse. Therefore, the PAR instrument would not be used, for example, where careful

framing of the beam is required, or in locations where even a small amount of spill is objectionable (an exception is the "Pinpoint" Series which has no spill light).

The sealed-beam instrument is well suited for use upstage of the proscenium, on arena stages, in tight mounting locations, for backlighting, lighting of dance, and a myriad of other uses. Its efficiency makes it ideal for drenching areas in rich, saturated colors, and for achieving high intensities with limited dimmer capacity.

These units tend to stimulate the designer into developing new stage lighting techniques. For example, a group of adjustable sealed-beam units on an LSI multiple circuit pre-wired lighting track would be a flexible lightweight substitute for the typically cumbersome borderlight.

This is only one example of the manner in which the unique PAR can generate new lighting concepts.





Catalogue supplement for theatrical use

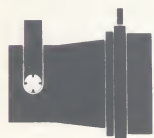
LSI manufactures a comprehensive family of sealed-beam fixtures which are widely used in all areas of lighting. Theatrical use, however, has unique demands—so we have prepared this supplementary catalogue page describing modifications and additions to the standard LSI units listed below. This page is by no means exhaustive and we invite inquiries regarding special problems and requirements.

Standard LSI units



Spotlight Series

Fixtures for 75 and 150 watt PAR38, 200 watt PAR46, 300 and 500 watt PAR56, and 500 watt PAR 64 lamps. These standard units with a wide variety of beamspreads will prove most useful to the theatrical lighting designer.



Pinpoint Series

Fixtures for 6 volt PAR36, 6 volt PAR46, and 6 volt PAR64 lamps. The unique Pinspots, with integral stepdown transformers, produce intense, narrow shafts of light without spill; ideal for picking out faces and details.



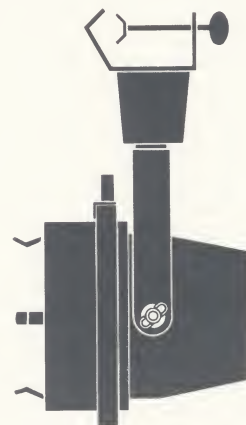
Q-flood

A compact wide-flood unit using a 250 watt single-ended quartz lamp. Recommended for short-throw floodlighting.

For complete details on these and other LSI lighting units, see the complete general catalogue.

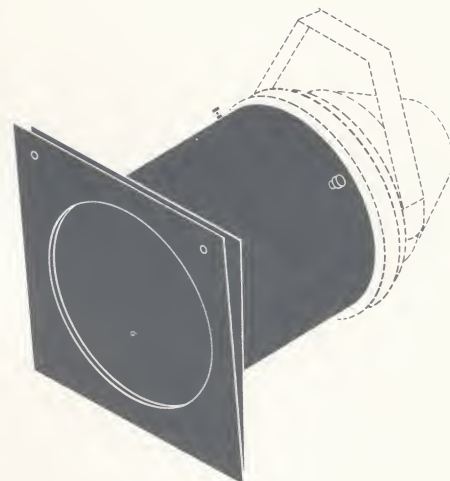
"T" Modifications

LSI Sealed-beam lighting units are normally supplied with on-off switches in several of the standard mountings. For theatrical service, LSI units will be supplied **without** switches, but with a special locking tab to prevent the fixture from opening under severe stage conditions, and with a wing-nut for locking the yoke. To order these modifications on any unit without charge, add the prefix "T" to the ordering number (e.g., **T300-3 Black** designates a "T" modified 300 Series unit with C-Clamp and black finish).



Color Frame/Hood

LSI fixtures are normally provided with three spring clips to hold LSI circular glass color filters. In order to use gelatine and plastic color media, LSI has developed a combination color frame and "high-hat" hood which clamps securely to the front of the unit. This device reduces spill light and spaces the color medium away from the lamp.



Order No. for		List Price
GH200	200 and 30 Series	\$5.00
GH300	300 Series	\$6.00
GH500	500 and 100 Series	\$7.00

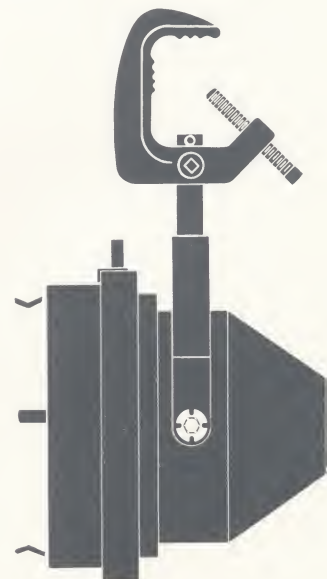
1000 Series Fixture

for 1000 watt PAR64 Lamps

LSI has developed a special PAR64 unit to accommodate the new 1000 watt Iodine-Quartz PAR64 lamps. It is equipped with special teflon-insulated high temperature wiring and lamp connector (the standard 500 Series PAR64 units are not so equipped).

This unit is normally available only with stage type cast iron pipe clamp, 3/6" leads, and a standard parallel-blade male plug. For stage connectors, see back page.

Order No.	List Price
T1000-PC	\$35.00



LSI Glass Color Filters

LSI manufactures fade-free stripped glass permanent color filters for its sealed-beam equipment. This type of filter is rimmed in a circular aluminum frame which also fits the frame slides of standard theatrical lighting equipment. In addition to the diameters listed in the catalogue for LSI units, the following popular theatrical sizes are available.

Dia.	Size Code	List Price:	
		1-9 pcs	10 or more*
6 1/2"	G	\$4.20	\$3.50
7 1/2"	H	\$6.00	\$5.00
10 1/2"	J	\$7.20	\$6.00

*of the same diameter; colors may be mixed.

Safety Screen

For high wattage equipment, metal hardware-cloth safety screen is recommended. This screen is an integral part of the fabricated filter when ordered.

List Price Adder: \$2.00

Color Filter Samples

To facilitate selection of glass color filters, LSI supplies a complete set of 2" x 2" labelled glass samples in a compact plastic carrying case.

List Price: \$10.00

LSI will fabricate, on special order, glass color filters in most sizes and shapes.

Stage Connectors

LSI cord-and-plug units (as distinguished from track system units) are normally furnished with standard parallel-blade male plugs. On special order, units will be furnished with stage plugs as listed below:

Plug Type	Specify:	List Price Adder
2 Pole 20 Amp. Pin Connector	"P2 Connector"	\$2.50
3 Pole 20 Amp. Pin Connector	"P3 Connector"	\$4.00
2 Pole 20 Amp. Twistlock	"T2 Connector"	\$2.25
3 Pole 20 Amp. Twistlock	"T3 Connector"	\$3.50



P2



P3



T2



T3

Heavy Duty Pipe Clamp

Normally, LSI pipe clamp units are furnished with a lightweight hand-tightened steel clamp which will fit pipe battens to 1 7/8" O.D., and will be satisfactory for most applications. Users wishing a standard size cast iron theatrical pipe clamp should so specify by using ordering suffix "PC" (e.g. **T300-PC Black**). There will be a List Price adder of **\$4.00** to the "-3" price.

